SECTION – B
SHORT QUESTION

Q-:2 Define Median and give its merits and demerits.

Q-3. Find the square root of $\left(x+\frac{1}{x}\right)^2-4\left(x-\frac{1}{x}\right)$

Q-4. Prove that $\frac{1}{1+\sin\theta}+\frac{1}{1-\sin\theta}=2\sec^2\theta$

Q-5. simplify $\frac{(27)^{\frac{2n}{3}} \times (8)^{-\frac{n}{3}}}{(18)^{-\frac{n}{2}}}$

Q-6. Define any two of the following and draw the figure.
Trapezoid. Circum circle o a triangle. Adjacent Angles.

Q-7. Find the H.C.F o the polynomials by division method.
$4x - 3x - 24x - 9$ and $8x^3 - 2x^2 - 53x - 39$.

Q-8. if A={a,b}, B = {2,3} and C = {3,4}, then find A x (B – C) and A x (B∆C)

Q-9. Prove that $\log_b m = \log_a m . \log_b a$

Q-10. Find the value of $x^3 + y^3$ when $x + y = -5$ and $xy = 8$.

Q-11. Two numbers are in the ratio 7:8 and their sum is 105. Find the number.

Q-12: Solved the equations by using Cramer's rule. $2x + 5y = 9$, $4x-2y = 1$

Q-13: Prove that , if a perpendicular is drawn from the centre of a circle to a chord, it bisects the chord

Q-14: Eliminate x from the equation. $x+\frac{1}{x}=2p,\ x-\frac{1}{x}=2q+1$

Q -15: Solve the equation by completing square: $2x^2 + 10x - 48 = 0$